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U.S. Department of Commerce Patent and Trademark Office Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number: 10/815,413
Filing Date: April 1, 2004
First Named Inventor: Hui Jin

Group Art Unit: 2631 Not yet assigned Examiner Name: Not yet assigned

Sheet 1 of 2 Attorney Docket No.: Flarion-78APP2 (103)



	U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where relevant Passages or Figures appear		
SW	AA	3,542,756	Nov 24 1970	Gallager			
SVS	AB	3,665,396	May 23 1972	Forney, Jr			
SVO	AC	4,295,218	Oct 13 1981	Tanner			
SVS	AD	5,157,671	October 20, 1992	Karplus			
SVS	AE	5,271,042	December 14, 2003	Borth et al/			
240	AF	5,293,489	March 8, 1994	Furui et al			
හිට	AG	5,313,609	May 17, 1994	Baylor et al			
Srz	AH	5,396,518	Mar 7 1995	How			
SVS	AI	5,457,704	Oct 10 1995	Hoeher et al			
SIS	AJ	5,526,501	June 11 1996	Shams			
SHO	AK	5,615,298	March 25, 1997	Chen			
SHO	AL	5,671,221	September 23, 1997	Yang			
Sus	AM	5,860,085	Jan 12 1999	Storman			
حلاي	AN	5,864,703	January 26, 1999	van Hook et al.			
872	AO	5,867,538	February 2, 1999	Liu			
SM	AP	5,892,962	Apr 6 1999	Cloutier			
SH	AQ	5,933,650	August 3, 1999	van Hook et al.			
Sus	AR	5,968,198	Oct 19 1999	Hassan			
SMS	AS	6,002,881	December 14, 1999	York et al.			
5m	AT	6,073,250	June 6, 2000	Luby et al.			
SVS	AU	6,195,777	Feb 27 2001	Luby et al			
sus	AV	6,247,158	June 12 2001	Smallcomb			
CVD	AW	6,266,758	July 24, 2001	van Hook et al.			
des	AX	6,298,438	October 2, 2001	Thayer et al			
منعى	AY	6,339,834	Jan 15 2002	Crozier et al.			
840	AZ	6,397,240	May 28, 2002	Fernando et al.			
845	BA	6,438,180	Aug 20 2002	Kavcic et al			
Sho	BB	6,473,010	Oct 29 2002	Viyaev et al.			
845	BC	6,484,284	November 19, 2002	Smallcomb			
310	BD	6,526,538	February 25, 2003	Hewitt			
240	BE	6,633,856	October 14, 2003	Richardson et al			
842	BF	US2004/0034828	February 19, 2004	Hocevar			
5/0	BG	6,718,504	April 6, 2004	Coombs et al			
545	ВН	6,731,700	May 4 2004	Yakhnich et al			
SUS	BI	6,754,804	June 22, 2004	Hudepohl et al			

Examiner Cite Foreign Patent Do	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Тę
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¹ Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			PLICANT	Application Number: Filing Date: First Named Inventor: Group Art Unit: Examiner Name:	10/815,413 April 1, 2004 Hui Jin 2631 Not yet assigned
Sheet	2	of	2	Attorney Docket No.:	Flarion-78APP2 (103)

		OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	172
C	CA	PCT International Search Report dated August 2, 2004, for International Appln. No.	
SW		PCT/US2004/010187, which was filed on April 2, 2004.	
Sm	СВ	Richardson et al. The capacity of low-density parity-check codes under message-passing Decoding, IEEE Transactions on Information Theory; pages: 599-618, February 2001, (same inventor) whole document.	
SM	CC	Paranchych et al. Performance of a digital symbol synchronizer in cochannel interference and noise, IEEE Transactions on Communications, pages: 1945-1954; Nov. 2000, whole document.	
כמצ	CD	NN77112415. Digital Encoding of Wide Range Dynamic Analog Signals, IBM Tech. Disclosure Bulletin, November 1, 1997, VOL. No. 20; ISSUE No. 6; Pages 2415-2417, whole document	
80	CE	NN9210335. Hierarchical Coded Modulation of Data with Fast Decaying Probability Distributions, IBM Tech. Disclosure Bulletin, October 1992, VOL. No. 35; ISSUE No. 5; Pages 335-336, whole document.	
Sa	CF	Sorokine, V. et al. Innovative coding scheme for spread-spectrum communications, The Ninth IEEE International Symposium on Indoor and Mobile Radio Communications, pages: 1491-1495, Vol. 3; September 1998, whole document.	
JWS	CG	T. Moors and M. Veeraraghavan, "Preliminary specification and explanation of Zing: An end-to-end protocol for transporting bulk data over optical circuits", pp. 1-55 (May 2001).	
So	СН	T. Richardson and R. Urbanke, "The Capacity of Low-Density Parity-Check Codes under Message-Passing Decoding", pp. 1-44 (March 2001).	
200	CI	T. Richardson, A. Shokrollahi, R. Urbanke, "Design of Capacity-Approaching Irregular Low-Density Parity-Check Codes", pp. 1-43 (March 2001).	
Q ²	CJ	T. Richardson and R. Urbanke, "An Introduction to the Analysis of Iterative Coding Systems", pp. 1-36.	
SID	CK	Saied Hemati, Amir H. Banihashemi, VLSI circuits: Iterative decoding in analog CMOS, Proceedings of the 13 th ACM Great Lakes Symposium on VLSI April 2003, Pages:15-20.	
SM	CL	Mohammad M. Mansour, Naresh R. Shanbhag, Session 11: Low-power VLSI decoder architectures for LDPC codes, Proceedings of the 2002 international symposium on Low power electronics and design August 2002, Pages: 284-289.	
A	СМ	R. Blahut, "Theory and Practice of Error Control Codes", Library of Congress Cataloging in Publication Data, pp-47-49, (May 1984)	
Sm	CN	W. W. Peterson and E.J. Weldon, Jr., "Error-Correcting Codes", Second Edition, The Massachusetts Institute of Technology, pp212-213,261-263, 263, (1986)	

Examiner Signature	Sylve	Date Considered	4/10	67	, -	٦
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SVD	co	5,742,612	4-21-1998	GOURGUE et al.				
820	CP	6.490,705	12-3-2002	BOYCE				
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Examiner Initials*	Cite No.'	Foreign Patent Document Office 3 Number 4	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Тę
						

Examiner	O. 1.	Date	2/1/-			
Signature	ALVOI.	Considered	7/1/07			
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1 Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.

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